Citel. The VoIP Migration Company™

EXTender™ 6000

Extend enterprise PBX functionality to branch offices and call centers

Citel's EXTender 6000 enables seamless access to features and applications of a central corporate PBX, allowing remote workers to better serve customers and coworkers.

Reduces communication costs.

Extends the life of the corporate PBX.

Unifies voice platform features and applications across the enterprise.

Simplifies calling plans.

Integrates seamlessly with all leading PBX/KTS systems.

The Citel EXTender™/PBXgateway™ Product Suite

Distributed enterprises utilizing a central PBX with advanced features and applications require IP migration solutions that leverage existing infrastructure investments, but also pave a road to the future of IP telephony. Citel's EXTender™/PBXgateway™ product suite accomplishes both objectives. Branch offices, call centers, mobile workers, and home-based workers connect to the corporate voice network over an IP network, while the enterprise extends the useful life of the existing PBX. As a result, enterprises achieve:

- Lower monthly telecom operating expenses through unified dialing plans and IP network utilization.
- Increased productivity through centralization of PBX management combined with distribution of PBX features and applications across the enterprise.
- Elimination of individual PBX or Key Systems at branch offices and call centers.

Citel's EXTender/PBXgateway telephony solutions are designed for operational simplicity. Configuration, management, administrative, and diagnostic functions are accessed using a dial-up modem, local terminal, HTML, or Telnet connection.

During the transition from digital to IP telephony, smart enterprises require the best from both. With a broad product suite includes solution for enterprises with configurations ranging from a single teleworker to a large network of branch offices and mobile employees, Citel has the right managed IP telephony migration solution for you.

Product Features

In enterprises with multiple locations, remote office PBX or KTS systems often lack many of the features, applications, and connectivity of the headquarters location. With the Citel EXTender 6000, remote offices and workers have seamless access to the corporate voice network, regardless of geographic location. All employees utilize a single, unified PBX platform, increasing productivity and reducing operational expenditures.

To deploy Citel's EXTender 6000 solution, simply install one or more units at each branch office, and the Citel PBXgateway I or II at the corporate location. The EXTender 6000 works with leading PBX platforms and digital handsets over T1, EI, ISDN, PRI, Frame Relay, and IP connections.

The EXTender 6000 is available in both 8-port and 12-port configurations. Both are available with an optional FXO port for easy 911 call locating and survivability in case of WAN failure.

Key Benefits

Increased Productivity
Branch office and other remote employees use the same full-featured digital sets as the central location to access PBX/KTS dial tone, receive office-bound calls, and invoke business calling features such as internal dialing, transfer, hold, and conference. Straightforward configuration and management allows IT and telecom staff to focus on employee productivity, instead of remote voice system maintenance.

Cost Savings
Telecommunication costs fall by up to 30% just by administering all PBX users from a single location and platform. And with access to internal (four-digit) dialing, there are no toll charges when calling any extension within the enterprise, regardless of physical location. Further, placing regular long-distance and international calls through the corporate voice system keeps all employees on a unified dialing plan.

Flexibility
With both 8- and 12-port configurations, the EXTender 6000 is ideal for offices with as few as five to as many as several hundred employees. It easily scales with the growth of the enterprise: when new employees are added, simply utilize an available EXTender port or, when capacity is reached, add another EXTender. In addition, the EXTender 6000 supports several voice compression rates, allowing the enterprise to select the rate best for its network (if available).

Ease of Maintenance
Moves, adds, and changes at branch locations can be performed from a central location, as can system performance monitoring. Network and feature permissions are controlled at the central location as if all employees were under one roof. The EXTender 6000 can even be remotely managed through a variety of remote access options and user port configurations.

Technical Specifications - EXTender™ 6000

Description

Branch office remote client device

Capacity

8 or 12 port

Supported Handset Models

The Citel EXTender™ 6000 supports leading handsets, including popular models from all manufacturers with compatible PBX protocols (see list below)

PBX Interoperability

The Citel EXTender 6000 supports leading PBX protocols, including:

- Alcatel: 4400 &4200
- Avaya: Definity® CS (all G3 releases) and Merlin Magix®
- Ericsson MD110
- Iwatsu ADIX APS
- Nortel: Meridian®, and Norstar®
- Panasonic: DBS 576 and DBS 576HD
- Toshiba: Strata DK & CTX (digital phones only)

Citel Equipment Interoperability

PBXgateway™ I
PBXgateway II

Interfaces

One Amphenol connector for 50-pin RJ-21 cable for interface with digital telephone sets
Two DB-25 WAN ports for serial RVP connection. Redundant interfaces include V.35, RS-232, or RS-530
One RJ-45 10 Base-T Ethernet for RVPoIP and system management
Power supply

Voice Protocols

Choice of voice compression algorithms:

- G.729A (8 kbps ADPCM)
- G.726 (24 o 32 kbps ADPCM)
- G.711 (64 kbps PCM)

G.165 compliant double-talk detection echo cancellation
RVP™ (uses HDLC encapsulation for voice transmission)
RVPoIP™ (uses UDP/IP protocol for voice transmission)

Configuration & Management

The EXTender 6000 must be terminated by a compatible PBXgateway at the corporate office.
Up to two EXTender 6000s may be terminated into one PBXgateway I or II over serial RVP connections.
Supported Utilities:

- SNMP support (Citel MIBs and traps)
- Inband RVP™
- Telnet
- HTML
- Phone display (limited features)
- PC and modem connection
- RS-232 serial connection to PC
- TCP/IP

Physical

Form factor: low profile, 1U rack mountable unit
Size: 17" x 8" x 1.75" (432mm x 203mm x 44mm)
Weight: 6.5 lbs (3 kg)

Power

Universal auto ranging
Line voltage: 100 - 240 V
Frequency: 47 - 63 Hz
Maximum power consumption: 75 watts

Environmental

Temperature: 32 - 130 F (0 – 55 C)
Relative humidity: 5 – 95% (non-condensing)

Regulatory

FCC
47 CFR Part 15, Subpart B, Class A and B
Part 68, Dubpart D

CSA NRTL/C
CAN/CA-C22.2 No. 950-93
CAN/CSA-C22.2 No. 225-M90

UL Std. No. 1459
UL Std. No. 1950-95

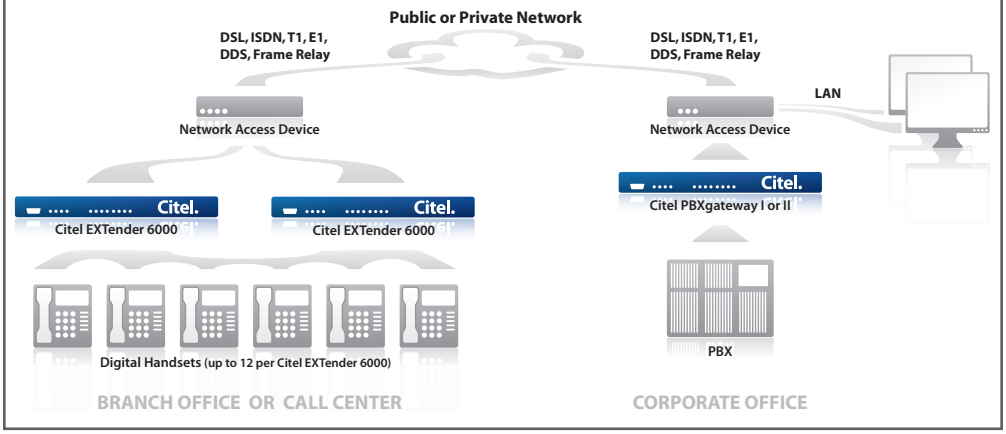
Industry Canada
CS-03 Part 1, Issue 8

CE Mark
EN50081-1, EN50081-2, EN50082-1
EN55024: 1998
EN6100-3-2: 1995
EN6100-3-3: 1995
EN55022, Class A
EN60950, LVD

Warranty

One-year limited warranty for parts & labor.
Extended warranty options available.

Sample Network Configuration



EXT6000-0807

Citel. The VoIP Migration Company™

Corporate Headquarters
3131 Elliott Avenue
Suite 250
Seattle, Washington
98121 USA
Phone: +1 206 957 6270
Fax: +1 206 957 6275

European Headquarters
Wheatcroft Business Park
Unit 4, Landmere Lane
Edwalton Nottingham
NG12 4DG United Kingdom
Phone: +44 (0)115 940 5444
Fax: +44 (0)115 940 5664

Canadian Headquarters
4040 Bowness Road N.W.
Calgary, Alberta
T3B 3R7 Canada
Phone: +1 403 247 9777
Fax: +1 403 247 9078

For More Information Contact Citel Directly
sales@citel.com
Phone: +1 206 957 6270
Toll Free: +1 877 248 3587
citel.com

Regional Offices
Atlanta, GA • Boston, MA • Chicago, IL • Dallas/Ft. Worth, TX • Denver, CO • Hartford, CT • Jacksonville, FL • Nashville, TN • Washington, DC • Wilmington, NC

©2007 Citel plc and Citel Technologies, Inc. All Rights Reserved. Citel, The VoIP Migration Company, Portico, TVA, EXTender, and PBXgateway are trademarks of Citel plc. Other products and trademarks mentioned herein are property of their respective owners. Citel plc is traded on the London Stock Exchange AIM under the ticker symbol CITE.L. The information and products contained in this document are subject to change without notice.